



Public Address System

6 Zones Mixer Amplifier with Paging, USB and Bluetooth

PM812

PM825

PM835



Operation Instructions

Welcome to use our public address system. For better application of this equipment, please read the operation instruction carefully prior to use.

LY International Electronics Co., Ltd.

<http://www.lyintlcorp.com/>

About Operation Instruction

This operation instruction shall come into effect on the date on which the development of the integrated power amplifier with partitions PM812/PM825/PM835 equipment is completed. The operation instruction contains the systematic introduction to the integrated power amplifier with partitions PM812/PM825/PM835 equipment, precautions for use, instruction to connection of system, and instructions to operations of products, and so on. The user shall read this operation instruction carefully prior to connection, installation and use, and shall operate in accordance with the instructions herein.



The attention must be paid to the instructions with such identification on the back panel of the machine. Please use or operation the machine following such instruction.

Please keep this operation instruction for the checking in the future.

⚠ Warning

In order to prevent the personal injury to user and other persons, the damage to equipment or loss of assets, please abide by the following basic precautions:



This mark indicates what is prohibited.

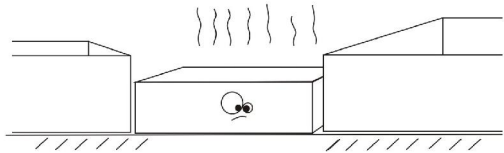


This mark indicates what must be done.

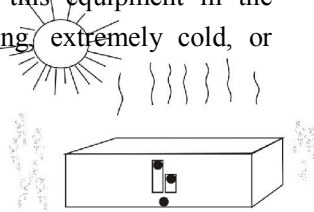
■ Check the power line for damage; please do not unplug by pulling the power cord but unplug directly; otherwise, it will lead to electric shock, short circuit or fire.



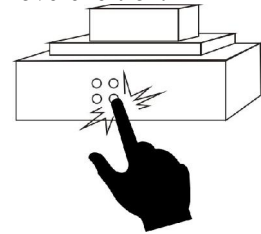
■ During the process of use, do not block the vent. It is required to keep all the vents unblocked in order to prevent the overheating.



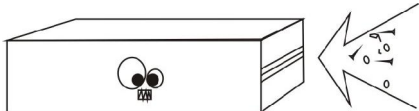
■ Please do not put this equipment in the heavily dusty, shocking, extremely cold, or hot environment



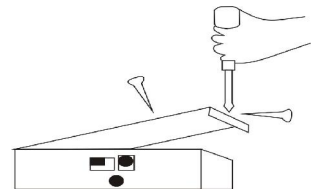
■ Please do not put any weight on this equipment. Do not operate switch and button or connect the external audio source equipment with overexertion.



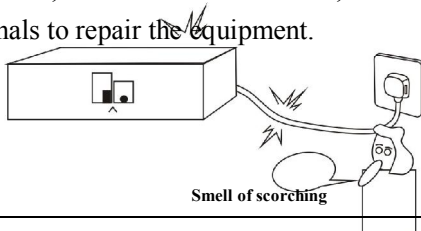
■ Prevent the entry of any foreign matter (e.g. paper and metal) through the clearance or opening of the equipment into it; in such case, please disconnect the power supply immediately.



■ Do not try to remove any component in the equipment or transform it in any way.



■ In case of the sudden interruption, or abnormal smell, or smoking during the operation of the machine, please unplug the power supply to prevent the electric shock, fire and other accidents, and ask the professionals to repair the equipment.



■ Please make sure to unplug the AC power line or switch off the socket on the wall to achieve the zero energy consumption if this equipment is out of service for a long term.

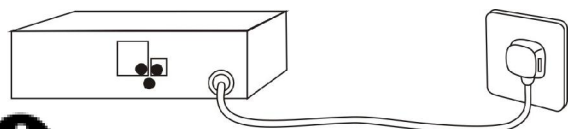


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I. Introduction to Product

1.1 Description of Equipment

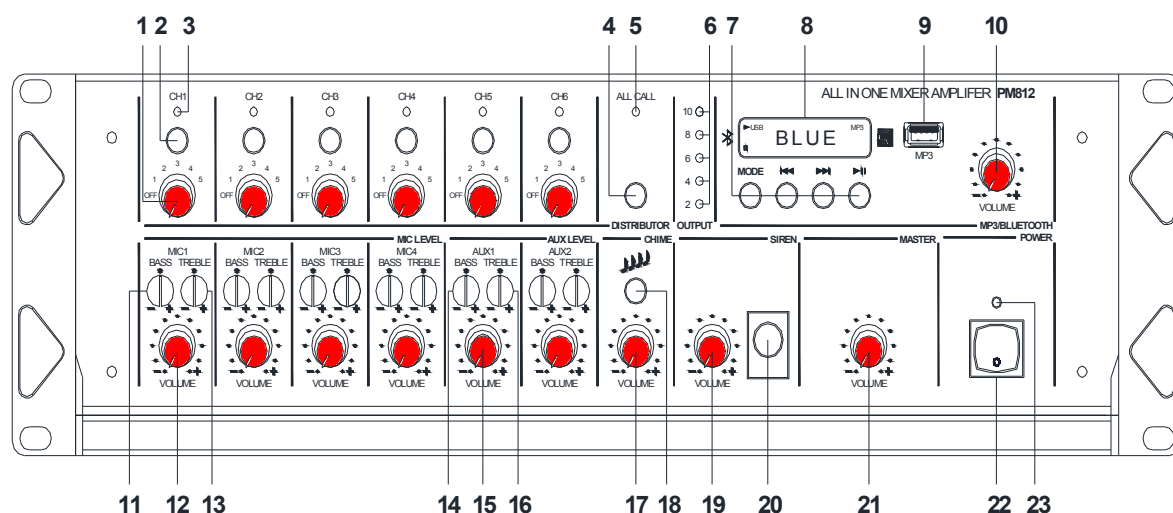
PM812/825/835 is a kind of cost-effective professional intelligent address system combining the luxurious and high-grade aluminum-alloy panel with standard and exquisite case with an elegant appearance, and also suitable for household, factory, school, hospital, shop and other commercial application. The amplification system of this equipment is designed with imported power tube, resulting in the strong power, wide frequency band, low noise, high fidelity and quality at the level of performance. In the equipment, there are six partitions and constant impedance output in order to facilitate the user to access the back-end loudspeaker. With the perfect and reliable overload protection, short-circuit protection, and overheat protection, the safety performance of this equipment is improved. The technical essence of this product is focused on the super adaptability and perfect performance.

1.2 Performance Characteristics

- Four channels of microphone and two channels of line input, and adjustable treble and bass separately;
- With 6-partitions selector, it is possible to select and control every partition separately; the volume is adjustable separately with indication by indicator lamp; it is also possible to select and control all the partitions with indication by indicator lamp;
- Built-in bell and alarm generator, controllable volume separately, indicating by indicator lamp and switch, and bell short-circuit triggering terminal;
- When the built-in alarm generator is started up, the background music is turned off, and the output from six channels of the partitions will be turned on;
- There are independent volume control and master volume control for sound source input;
- The display of output power level indicator lamps (5 LED lamps) on the front panel;
- With sound source U-disk and bluetooth player, play songs in various document formats such as MP3, WMA, WAV and ACC;
- Telephone TEL input on rear panel with controllable call volume;
- Four internet ports on the rear panel connected to CM12 pager controlled microphone to control the partition output on a remote basis;
- Built-in 24V DC power input;
- Four channels of microphone, MIC1-4 built-in phantom power, controllable switch independently;
- Fan on the rear panel in the structure of forced heat dissipation, enabling the service of machine for a long term;
- Output short-circuit protection and giving alarm;
- Priority level function (Default):
 - Level 1: Telephone (TEL), remote pager;
 - Level 2: Microphone 1, alarm (SIREN), EMC, bell;
 - Level 3: Microphone 2, microphone 3, microphone 4, line 1, line 2, MP3 player.

II. Description of Appearance

2.1 Description of Front Panel



1 Partition CH1 volume adjustment knob

Adjust the volume of the partition CH1, and that of CH2, CH3, CH4, CH5, CH6 and so on.

2 Partition CH1 switching key

Press this key to turn on the partition CH1, and then partition CH2, CH3, CH4, CH5, CH6, and so on.

3 Partition CH1 turn-indicator lamp

When partition CH1 is turned on, this indicator lamp is alight, and that of CH2, CH3, CH4, CH5, CH6 and so on.

4 All partitions control key

Press this key to turn on all the partitions.

5 All partitions indicator lamp


Press key 4 to turn on the paging for all the partitions, and this indicator lamp is alight.

6 Output level indicator lamp


Display the output level.

7 MP3/bluetooth player control key: MODE

: MP3 and AUX switching key

: Previous song key;



: Next song key;



: Play/pause key;

8 Digital display screen (8888)

9 USB port

Support 32GU disk.

10 MP3 volume adjustment knob

Adjust the volume of MP3.

11 Microphone MIC1 bass adjustment knob BASS

Taking central position as benchmark, turn counterclockwise to attenuate the base, and turn clockwise to enhance the base, and then MIC2, MIC3, MIC4 and soon.

12 Microphone MIC1 volume adjustment knob

Adjust the volume of microphone MC1, then that of MIC2, MIC3, MIC4 and so on.

13 Microphone MIC1 treble adjustment knob TREBLE

Taking central position as benchmark, turn counterclockwise to attenuate the treble, and turn clockwise to enhance the treble, and then MIC2, MIC3, MIC4 and so on.

**14 Auxiliary input AUX1 bass adjustment knob
BASS**

Taking central position as benchmark, turn counterclockwise to attenuate the base, and turn clockwise to enhance the base, and so on.

15 Auxiliary input AUX1 volume adjustment knob

Adjust the volume of auxiliary input AUX1, and that of AUX2, and so on.

**16 Auxiliary input AUX1 treble adjustment knob
TREBLE**

Taking central position as benchmark, turn counterclockwise to attenuate the treble, and turn clockwise to enhance the treble, and that of

AUX2 and so on.

17 Bell volume adjustment knob

Press the key 18 to turn on the bell, and turn this knob to adjust the output volume of the bell.

18 Channel bell switching key

Press this key to turn on the bell.

19 Siren volume adjustment knob

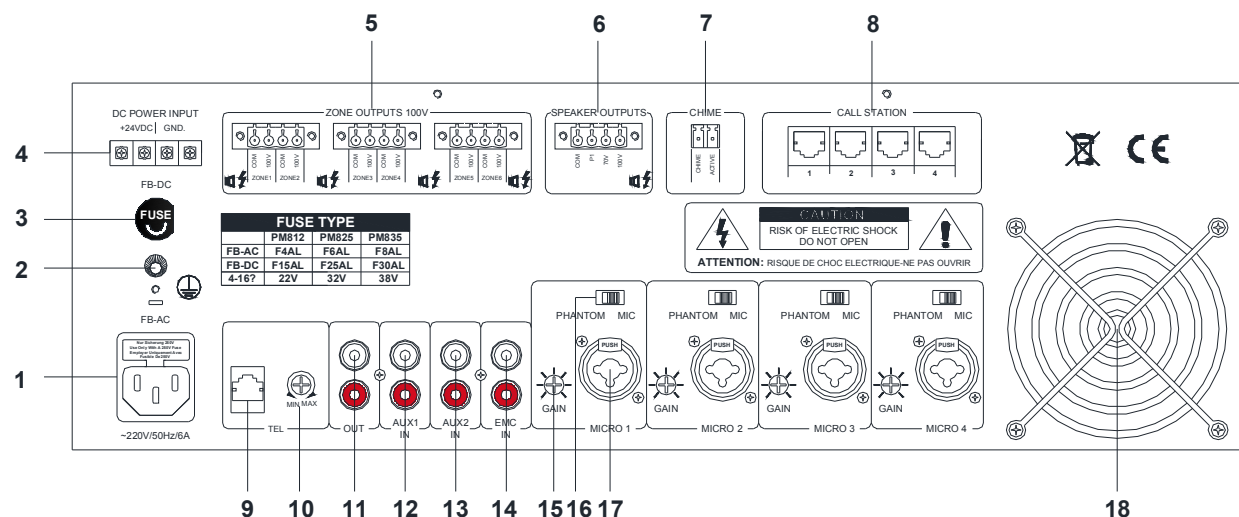
Adjust the volume of siren.

20 Siren on-off button**21 Master volume adjustment knob**

Adjust the level of all the signals.

22 Power switch**23 Power indicator lamp**

2.2 Description of rear panel



1 Power line socket

Connect ~220V/50Hz power supply.

2 Grounding terminal

3 Fuse holder

4 24V connection terminal

5 Output terminal (ZONE1-6):

The partitions may be connected to loudspeaker lines at will.

6 Output terminal

Connect 4-16Ω or 70V/100V loudspeaker output.

7 Bell triggering terminal

8 Remote paging control interface

Connect CM12 pager control microphone to control the partition output on a remote basis.

9 Telephone input terminal (TEL IN)

It is used for remote telephone paging.

10 Telephone volume control knob

Adjust the volume of telephone input with the screwdriver.

11 Auxiliary output socket (To connect another power amplifier)

0dB, 600Ω, unbalanced output type, output of all the input signals.

12 Auxiliary input socket (AUX1)

Connect CD or other sound sources.

13 Auxiliary input socket (AUX2)

Connect CD or other sound sources.

14 Emergency input socket (EMC)

Used for input of fire signal.

15 MIC1 gain adjustment control knob

In order to prevent severe clipping of balanced phantom input, reduce gain properly, and then for MIC2, MIC3, MIC4 and so on.

16 +48V phantom power control switch

Control MIC1, MIC2, MIC3, MIC4 separately.

17 Microphone MIC1 input socket

And for MIC2, MIC3, MIC4 and so on.

18 Cooling fan outlet

Precautions for safety in use

1. Precautions for safety in use

- Before connecting the system line properly, do not insert the power plug of this equipment into the grid.
- Ensure the voltage input to the equipment shall be fully consistent with the voltage of this equipment to prevent the risk in the burning of the equipment.
- There is the hazardous voltage in the machine, which is sufficient to cause the electric shock to the person. Please do not open the machine housing without authorization to prevent the hazard of electric shock.
- In the event that the power supply to this equipment is turned off, the machine is not fully disconnected with the power supply of the grid. For the purpose of safety, please pull the power plug out of the socket when the equipment is not in service.
- Please do not put the equipment in the extremely cold or hot place.
- Ensure the good ventilation in the working environment of the equipment, to prevent the damage to the equipment due to the heating in working and excessively high temperature.
- In the rainy and humid days or if the machine is not in service for a long term, please pull out the power plug.
- Before removing or reassembling any part of the equipment, disconnecting or reconnecting any electrical plug or other connections of the equipment, be sure to pull out the power plug to ensure the full disconnection of the equipment with the grid.
- In case of any fault in the equipment, the non-professional person shall not disassemble the housing for repair without the approval, in order to prevent accident or aggravate the damage to the equipment.
- Do not put any corrosive chemicals nearby or on the equipment.

2. Precautions for after-sales service

- In case of the installation and operation according to this instruction, the company will provide the free warranty service (Including replacement of parts free of charge) for any problem in the normal operation for three years since the date of purchase.
- In case of the warranty, the user shall show the user's voucher of warranty card and the invoice as the certificate.
- In any of the following cases, the free warranty shall not be applicable:
 1. The damage to the product due to the incorrect installation, use or handling;
 2. The damage to the product due to the abnormal conditions (e.g. excessively high power voltage or ambient humidity);
 3. The damage to the product due to natural and man-made disaster and other accidents;
 4. The number on the product body is changed, altered or removed;
 5. The product has been repaired or refitted by the person other than those authorized by the company;
- Please keep the operation instruction and warranty card properly.
- For the issue or matter not covered herein, please contact the distributor or visit <http://www.lyintlcorp.com>.
- In case of any fault occurred during the period of warranty, please contact the service personnel of our company (or distributor); our company will not take responsibility for the damage due to the unauthorized disassembly or the repair by the person other than the technicians of our company.

Packing List

No.	List	Quantity
1	Power amplifier	1 set
2	Warranty card	1 copy
3	Certificate	1 copy
4	Operation instruction	1 copy
5	1500MM double-modulator audio cable	1 piece
6	4P green plugs	4 pieces
7	2P green plugs	1 piece
8	10A GB power line /16A European-type power line (Optional)	1 piece
9	H21-612 remote controller	1 piece
10	6.35R lotus plug	2 pieces

Performance specification

Type	PM812	PM825	PM835
Rated power	120W	250W	350W
Constant voltage output	70V, 100V		
Constant impedance output	4-16 Ω (balanced, not grounded)		
Line input sensitivity	300mV(\pm 50mV), 1kHz/unbalanced;		
Microphone input sensitivity	3.0mV(\pm 0.5mV), 1kHz/unbalanced; 5.5mV(\pm 0.5mV), 1kHz/balanced		
EMC input sensitivity	300mV(\pm 50mV), 1kHz/unbalanced;		
Telephone sound source input sensitivity	300mV(\pm 50mV), 1kHz/unbalanced;		
Frequency response	MIC: 100Hz-18kHz (\pm 3dB); TEL: 100Hz-18kHz (\pm 3dB); LINE: 80Hz-20kHz (\pm 3dB);		
Tune control	\pm 10dB (Bass: 100Hz); \pm 10dB (Treble: 10KHz);		
Signal to noise ratio	MIC: \geq 55dB; TEL: \geq 65dB; LINE: \geq 75dB;		
Auxiliary line output	0dBV, unbalanced		
Remote microphone input	2000mV, balanced		
Protection function	Overload protection, short-circuit protection, temperature protection		
Total harmonic distortion	\leq 1% (1kHz, normal working condition)		
Output adjustment rate	From full load to no load, \leq 3dB		
Power consumption	250W	500W	650W
Dimension of machine (L×W×H mm)	483×413×132		
Dimension of packing (L×W×H mm)	540×510×200		
Net weight	14kg	17kg	19kg
Gross weight	16.5kg	19.5kg	21.5kg

Attention

- If the power switch of the equipment is “off”, the machine is not disconnected to the grid; for the purpose of safety, please pull the power line plug out of the socket if this equipment is not in service.
- This equipment shall not suffer from water dripping or spraying. Do not place the vase full of water onto the equipment.
- Do not open the cover plate of the machine without authorization to prevent electric shock. The repair shall be conducted by the professional with professional certificate if necessary.
- The terminal marked with ⚡ in the equipment indicates the hazardous electrification. The connection of such terminal shall be completed by the trained personnel.
- This equipment is connected to the power supply of the grid with the power line plug; in case of any fault or risk in the equipment, pull out the power line plug to disconnect the connection between the equipment and the grid; therefore, the power line plug shall be put in the place easy for plug-in/out of the power line.